



# 2018 Application for Section 205(j) Water Quality Planning Grant

Division of Water Resources  
North Carolina Department of Environmental Quality

<b>1. Basic Information</b>			
<b>Project Title:</b>	<b><i>French Broad River Watershed Stormwater Inventory</i></b>		
<b>Project start date:</b>	<b><i>February 15, 2019</i></b>	<b>Project end date:</b>	<b><i>December 31, 2019</i></b>
<b>Project Abstract:</b>			
<p>Land of Sky Regional Council (LOSRC) will develop a detailed and web-based stormwater inventories for the small towns of Laurel Park and Marshall; one is located on steep slopes in the French Broad River Watershed and the other along the River within the floodplain. Maps will include existing stormwater infrastructure (culverts, pipes, outfalls, area drains, catch basins, dry ponds, wet ponds, and ditches.) LOSRC will work with town staff to locate existing facilities, condition, and areas of concern in order to facilitate maintenance and capital improvements on stormwater infrastructure.</p> <p>LOSRC will also assist facilitate the newly developing French Broad River Watershed Partnership. Stormwater inventories will be highlighted as tools for local decision-making in infrastructure and development.</p>			
<b>205(j) Grant Funds Requested</b>		<b>\$20,000</b>	
<b>Match (optional, recommended)</b>		<b>\$5,000 (town labor in-kind)</b>	
<b>Total Project Cost</b>		<b>\$25,000</b>	



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## 2a. Primary Contact or Project Manager:

*A one-page Statement of Qualifications must be provided in Section 4 of the application form to confirm that anyone designing, installing, or monitoring the proposed project is qualified to do so.*

<b>Name</b>	Erica Anderson, AICP				
<b>Title</b>	Director, Economic & Community Development				
<b>Organization Name</b>	Land of Sky Regional Council				
<b>Mailing Address</b>	339 New Leicester Hwy, Suite 140				
<b>City</b>	Asheville	<b>State</b>	NC	<b>ZIP</b>	28806
<b>Email Address</b>	<a href="mailto:Erica@landofsky.org">Erica@landofsky.org</a>				
<b>Telephone</b>	828-251-6622	<b>FAX No.</b>	828-251-6353		

## 2b. Administrative Address:

*Address where contract will be mailed for signature.*

<b>Name</b>	Justin Hembree				
<b>Title</b>	Executive Director				
<b>Organization Name</b>	Land of Sky Regional Council				
<b>Mailing Address</b>	339 New Leicester Hwy, Suite 140				
<b>City</b>	Asheville	<b>State</b>	NC	<b>ZIP</b>	28806
<b>Email Address</b>	<a href="mailto:erica@landofsky.org">erica@landofsky.org</a>				
<b>Telephone</b>	828-251-6622	<b>FAX No.</b>			
<b>Federal Tax ID Number</b>	56-1024369				

## 2c. Payment Address:

*Address where invoice payments will be mailed.*

<b>Name</b>	Accounts Payable				
<b>Title</b>					
<b>Organization Name</b>	Land of Sky Regional Council				
<b>Mailing Address</b>	339 New Leicester Hwy, Suite 140				
<b>City</b>	Asheville	<b>State</b>	NC	<b>ZIP</b>	28806
<b>Email Address</b>	<a href="mailto:arlene@landofsky.org">arlene@landofsky.org</a>				
<b>Telephone</b>	828-251-6622	<b>FAX No.</b>			

### **3. Statement of Qualifications for project manager and primary partners**

*Please include qualifications of people, not organizations. Do not copy and paste entire CVs. Briefly describe relevant experience, noting any relevant 205(j) grant funded projects.*

Currently, Land of Sky Regional Council has a 205j award for completing two Stormwater Inventories with the towns of Hot Springs and Rosman. The inventories are in the final stages of completion and ground truthing.

**Erica Anderson, AICP, Director of Economic and Community Development** – BS in Animal Sciences and MURP in Urban and Regional Planning from Virginia Tech. Erica has 17 years experience developing and managing environmental and water quality planning projects throughout the Southeast and New England, including:

- \*Upper Swannanoa River 9-Element Watershed Plan
- \*WNC Stormwater Partnership
- \*Tri-Town Aquifer Best Management Practices
- \*Innovative Land Use Guide
- \*KY Division of Water, 319 Program
- \*Northwest Florida Water Management District, Source Water Management
- \*Environmental Planning and Policy, Lakes Region Planning Commission

#### **Jon Beck, GIS Planner**

Jon Beck has been the GIS Planner at Land of Sky Regional Council since September 2003. His responsibilities include Development of GIS Data Layers, Construction of Spatial Databases, Demographic Data Collection & Analysis, Spatial Data Collection using GPS Technology, and Creation & Administration of Web Mapping tools using ESRI ArcGIS Online. Jon is a Board Member of the NC Geographic Information Coordinating Council and Secretary of the NC Association of Regional Councils GIS Users Group. He holds a BS in Geography from Appalachian State University and is a Veteran of the US Army.

Jon has been the staff person responsible for data collection, field work, and development of the stormwater inventories that have been completed to date.

**4. Project Partner Information:**

*If further space is needed to adequately describe partners' role/contribution to project, please include in the Statement of Qualifications section.*

Agency Name	Town of Laurel Park		
Agency Address	441 White Pine Drive, Laurel Park, NC		
Role/contribution to Project	Participant in inventory, staff assistance identifying stormwater, decision-maker with implementation		
Contact Person	Manager, Alison Alexander	Phone No.	828.693-4840
E-mail address			
Agency Name	Town of Marshall		
Agency Address	180 South Main Street		
Role/contribution to Project	Participant in inventory, staff assistance identifying stormwater, decision-maker with implementation		
Contact Person	Administrator, Nancy Allen	Phone No.	828-649-3031
E-mail address			
Agency Name	Land of Sky Regional Council		
Agency Address	339 New Leicester Hwy, Suite 140, Asheville, NC 28806		
Role/contribution to Project	Project partner – 205j administrator, watershed planning, GIS		
Contact Person	Erica Anderson	Phone No.	828.251.6622
E-mail address	<a href="mailto:Erica@landofsky.org">Erica@landofsky.org</a>		
Agency Name	NC DENR		
Agency Address	2090 US 70 Highway, Swannanoa, NC 28778		
Role/contribution to Project	Stormwater & water resources expertise		
Contact Person		Phone No.	828.296.4500
E-mail address			

**5. General Goal of the Project (per the Clean Water Act Section 604(b)/205(j) grant purpose)**

Identify most cost effective and locally acceptable facility and nonpoint source measure to meet and maintain water quality standards	Develop implementation plan to obtain state and local financial and regulatory commitments to implement measures identified	Determine the nature, extent, and cause of water quality problems in various areas of the state	Other—please specify water quality planning purpose
X		X	X

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<b>6. Project Area</b>	
Results Site-Specific, Regional, or Statewide?	Site-specific & Regional
River Basin	French Broad
Need identified in Basin Plan? (Y/N; note plan name, date, pg#)	Y, French Broad RBRP, 2009, 5-9
Watershed name	Upper French Broad River Sub basin
Watershed size	1658 square miles
<b>(For site-specific projects only)</b> 12 digit USGS HUC(s)	Laurel Park – Upper Mud Creek: 06010105030020 Marshall – French Broad River: 060101050
County	Henderson, Madison

<b>7. Project Milestone Schedule</b>		
<i>If anticipating starting project in second quarter, can leave first quarter blank. Please note anticipated dollar amount, percent of grant spent that quarter, and cumulative percent of grant spent for project. Quarterly invoices will only be reimbursed up to percent indicated. Unused funds will carry forward to next quarter. Note that 10% of grant will be held until receipt of Final Project Report.</i>		
Quarter	Activities or outputs to be accomplished	Anticipated \$ amount / % of funding spent / cumulative % spent
First Quarter Jan-Mar 2019	Mapping stormwater facilities	\$5000 / 25% / cumulative 25%
Second Quarter Apr-June 2019	Mapping stormwater facilities	\$5000 / 25% / cumulative 50%
Third Quarter Aug-Jul - Sept 2019	AGOL – web platform data development	\$5000 / 25% / cumulative 75%
Fourth Quarter Oct - Dec 2019	Final web-platform and complete site work	\$5000 / 25% / cumulative 100%
Fifth Quarter Jan - Mar 2020		
Sixth Quarter Apr - Jun 2020		100%

**8. Map of project area:** Please copy map into document as a small image file.

A map of Laurel Park, Florida, with its irregular boundary highlighted in red. The map shows surrounding neighborhoods including Westridge, Wildwood Heights, Country Club Estates, and Willow. Major roads like Brevard Rd, 5th Ave W, and Indian Cove are labeled. A green pin marks a location called 'Jump Off Rock'. The map also shows various other roads and landmarks, such as the Hendersonville Golf and Country Club.

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## **9. Detailed description of the project**

*(Note: if developing a Watershed Restoration Plan, please also complete section 16)*

Land of Sky Regional Council will partner with the Towns of Laurel Park and Marshall in Henderson and Madison Counties, respectively, to map the Towns' existing stormwater infrastructure (culverts, pipes, outfalls, area drains, catch basins, dry ponds, wet ponds, and ditches.) Scope of Work includes:

### **GIS/GPS Data Stormwater Infrastructure to ArcGIS Online**

1. Develop point data for existing stormwater infrastructure
2. Develop utility database for stormwater features, condition, size
3. Create a Web Map that allows Local Government personnel to Create, Query, and Edit Stormwater Services data, via the internet.
4. Oversee utility database migration and application design
5. Maintain project status reports

Results will be shown in a web-based ArcGIS on-line tool (AGOL) that is interactive and enables town staff to identify and assess priority facilities for flood mitigation, maintenance, and water quality improvements.

These towns were chosen for inventories through the 205j program based on their small size, aging stormwater systems, proximity to the river, and high potential for flooding and stormwater runoff. Significant portions of the Town of Marshall lies within the French Broad River floodplain and/or floodways. Laurel Park is on very steep slopes with narrow roads and aging stormwater infrastructure. Many areas of the towns have erosion challenges as a result of runoff and flooding.

This project will help improve stormwater management for the purposes of flood control and water quality, as well as assist town staff maintain and improve the Towns' aging stormwater infrastructure.

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### **10a. Related Projects in the Watershed**

*Please note any other water quality or conservation projects in the same watershed that contribute to the same goals as the proposed project. These could be own or partners' related water quality planning or implementation projects. If few or none, note how this project will fill a need.*

**Marshall currently has a CDBG water system improvement project to replace aged water lines in critical areas in town. The CDBG project is administered by LOSRC staff, and is a grant to the town. Consulting engineers, the town, and LOSRC staff work very closely on implementation. This stormwater inventory will assist identify areas to locate new facilities, or improve existing, to best protect natural and built assets.**

**Laurel Park is within the design phase of a NC DOT project on US64 and White Pine Drive is a priority for future modification. NC DOT, LOSRC transportation staff, and town officials are responsible for implementing this project. The Stormwater inventory will assist the town identify where to invest limited resources during these projects, and other high priority areas in town.**

### **10b. Relevance to Proposed Project (if applicable)**

*Help reviewers understand local capacity:*

- *How might these projects might benefit or complement the proposed project?*
- *When were they completed?*
- *Who implemented/maintains them?*

**(see above)**

### **11. What funding sources exist to implement the results of the project?**

Town financial resources will be used to implement priority projects over the upcoming years. Grants and other funds will also be considered for larger projects.



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**12. (Optional) Photos or diagrams:** *include photos or diagrams if they would supplement project narrative and improve reviewers' understanding of your project.*

An example of the site developed for Black Mountain is shown in this link: (please do not share broadly due to potentially sensitive information included):  
<http://bmt.maps.arcgis.com/apps/webappviewer/index.html?id=c595b84787fc436199f05a30d12d08fe>

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<b>13. Funding Requested</b>					
<i>Note: If a significant portion of funding is in contractual line, please break down contractual line items in section 15.</i>					
Budget Categories (itemize all categories)	Section 205(j)		Non-Federal Match (recommended, but not required)	Total	Justification (Include explanation for each budget line item)
	Year 1	Year 2			
Personnel/Salary	6,500	6,500		13,000	GIS Staff Person: 1. site work to determine GPS locations for all existing infrastructure 2. Develop stormwater map AGOL web platform for each town Env. Planner: Recommendations for best practices, maintenance and improvements
Fringe Benefits	2,341	2,341		4,682	Employee benefits – health, retirement, etc.
Supplies					
Equipment					
Travel	250	250		500	Travel for LOSRC staff site inventory
Contractual					
Other			5,000	5,000	In-kind personnel, travel for town staff
Total Direct	9,091	9,091	5,000	23,182	Total project budget
Indirect (max. 10% of direct costs, per 40 CFR 35.268)	909	909		1,818	Indirect for LOSRC staff
<b>Annual Totals</b>	10,000	10,000	5,000	25,000	
<b>Grand Total</b>	20,000		5,000	25,000	
<b>% of Total Budget</b>	75%		25%	100%	

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<b>14. Match summary (if applicable—recommended, but not required)</b>	
Total Match amount	\$5,000
Cash Match	\$
Source(s):	
In-kind Match	\$5,000
Source(s):	Local staff labor and travel for site inventories

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<b>15. Contractual budget – IF APPLICABLE</b> <i>If a significant portion of funding is in contractual line, please break down contractual line items here.</i>					
Budget Categories (itemize all categories)	Section 205(j)		Non-Federal Match (recommended, but not required)	Total	Justification (Include explanation for each budget line item)
	Year 1	Year 2			
Personnel/Salary					
Fringe Benefits					
Supplies					
Equipment					
Travel					
Contractual					
Other					
Total Direct					
Indirect (max. 10% of direct costs, per 40 CFR 35.268)					
<b>Annual Totals</b>					
<b>Grand Total</b>					
<b>% of Total Budget</b>	%		%	100%	

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<b>16. (Only for applicants developing a 9-Element Watershed Restoration Plan)</b> <b>Please indicate below what sources you will use to find or develop the information necessary to meet EPA's 9 Key Elements.</b>	
1	An <b>identification of the causes and sources</b> or groups of similar sources that will need to be controlled to achieve the load reductions estimated in the watershed
2	A <b>description of the NPS management measures</b> that will need to be implemented to achieve load reductions as well as to achieve other watershed goals identified in the watershed based plan
3	An <b>estimate of the load reductions</b> expected for the management measures
4	An <b>estimate of the amount of technical and financial assistance needed</b> associated costs and or sources and authorities that will be relied upon, to implement the plan
5	An <b>information/education component</b> that will be used to enhance public understanding of the project
6	A <b>schedule for implementing the NPS management measures</b> identified in this plan that is reasonably expeditious

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7	A description of interim, <b>measurable milestones for determining whether NPS management measures</b> or other control actions are being implemented
8	A set of <b>criteria that can be used to determine whether loading reductions are being achieved</b> overtime and substantial progress is being made towards attaining water quality standards
9	A <b>monitoring component</b> to evaluate the effectiveness of the implementation efforts over time measured against the criteria established under item 8.

If you have questions or need assistance filling out this application, please do not hesitate to contact 205(j) grant administrator Maya Cough-Schulze at (919) 707-3697 or [maya.cough-schulze@ncdenr.gov](mailto:maya.cough-schulze@ncdenr.gov).